RGB 160xi

Universal Mountable Computer-Video Interface with Audio and ADSP™

FEATURES

- Input: RGB video on female 15-pin HD connector; audio on 3.5 mm stereo mini connector
- Output: RGB video on female BNC connectors for RGBHV, RGBS, or RGsB; audio on captive screw connector
- Compatible with VGA-QXGA, Mac, Sun®, and SGI® computers
- 300 MHz (-3 dB) RGB video bandwidth
- ADSP™ - Advanced Digital Sync Processing
- Active PC audio to balanced audio interfacing
- Three-position level/peaking switch
- Horizontal shift control
- DDSP™ - Digital Display Sync Processing
- Automatic sync stripping from red, green, and blue
- Buffered female 15-pin HD local monitor output
- Rugged metal enclosure
- Internal international power supply

DESCRIPTION

The Extron **RGB 160xi** with ADSP™ is a universal, analog computer-video interface with a female 15-pin HD input and buffered local monitor output. The RGB 160xi has a 15-130 kHz scanning range and 300 MHz (-3 dB) RGB video bandwidth. It is compatible with VGA-QXGA, Mac, Sun®, and SGI® signals, and will convert computer-generated, unbalanced audio to balanced, line level audio. The RGB 160xi features sync processing through Extron's exclusive ADSP - Advanced Digital Sync Processing technology, ensuring compatibility with digital displays such as DLP, LCD, D-ILA™/LCoS, plasma, etc.

SPECIFICATIONS

VIDEO

Gain	Unity, (0.725 Vp-p) 50% peaking, (0.75 Vp-p) 100% peaking
Bandwidth	300 MHz (-3 dB)

VIDEO INPUT

Number / Signal type	1 analog RGBHV, RGBS, RGsB, RsGsBs
Connectors	1 female 15-pin HD
Nominal level	0.7 Vp-p for RGB
Minimum / Maximum levels	Analog: 0.3 V to 1.5 Vp-p with no offset at unity gain
Impedance	75 ohms
Horizontal frequency	Autoscan 15 kHz to 130 kHz
Vertical frequency	Autoscan 30 Hz to 120 Hz

VIDEO OUTPUT

Number / Signal type	1 analog RGBHV, RGBS, RGsB
Connectors	6 female BNC, 1 female 15-pin HD local monitor buffered output
Nominal level	0.7 Vp-p for RGB
Minimum / Maximum levels	Analog: 0.7 V to 0.75 Vp-p with 0.70 Vp-p input
Impedance	75 ohms

SYNC

Input type	RGBHV TTL (±), RGBS TTL (±), RGsB 0.3 V (-), RsGsBs 1.3 V (-)
Output type	RGBHV (±), RGBS (±), RGsB (-)
Input level	2 V to 5.5 Vp-p with ±0.2 VDC offset (max.)
Output level	4 V to 5 Vp-p, unterminated
Input impedance	510 ohms
Output impedance	75 ohms
Max. propagation delay	48 ns
Max. Rise / Fall time	3.5 ns
Polarity	RGBHV: when RGBHV is input, polarity follows input; otherwise negative RGBS, RGsB: negative

AUDIO

Gain	Unbalanced output: 0 dB; balanced output +6 dB
Frequency response	20 Hz to 20 kHz, ±0.05 dB
THD + Noise	0.03% @ 1 kHz, 0.3% @ 20 kHz at nominal level
S/N	>72 dB, at maximum output (14 dBu), balanced (unweighted)
Stereo channel separation	>66 dB @ 1 kHz to 20 kHz

AUDIO INPUT

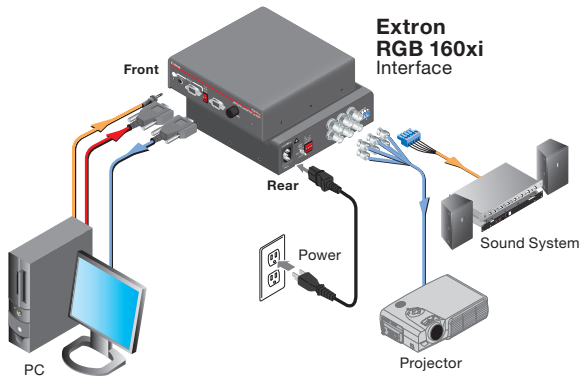
Number / Signal type	1 PC level stereo, unbalanced
Connectors	(1) 3.5 mm stereo jack, 2 channel; tip (L), ring (R), sleeve (ground)
Impedance	5k ohms, DC coupled
Nominal level	-10 dBV (316 mVrms)
Maximum level	+4.2 dBu, (unbalanced) at 1% THD+N

AUDIO OUTPUT

Number / Signal type	1 stereo (2 channel), balanced/unbalanced
Connectors	(1) 3.5 mm captive screw connector, 5 pole
Impedance	50 ohms unbalanced, 100 ohms balanced
Maximum level (600 ohm)	>+8.8 dBm, balanced at 1% THD+N

GENERAL

Power	100 VAC to 240 VAC, 50/60 Hz, 15 watts, internal, autoswitchable
MBC power jack	9.0 VDC, 150 mA
Rack mount	No
Furniture mount	Yes, with optional kits, #70-077-01 and #70-077-02
Enclosure type	Metal
Enclosure dimensions	1.75" H x 6.4" W x 6.0" D 4.4 cm H x 16.3 cm W x 15.2 cm D (Depth excludes connectors.)
Product / Shipping weight	1.4 lbs (0.6 kg) / 4 lbs (2 kg)



MODEL

MODEL	VERSION DESCRIPTION	PART #
RGB 160xi	Mountable Universal Interface w/Audio	60-378-01

REQUIRED ACCESSORY	MODEL DESCRIPTION	PAGE	PART #
VGA-A M-M MD/6	15-pin HD Male to Male 6' (1.8 m)	page 51	26-490-02
Mac 15-HD	Mac Adapter Kit with Audio	page 51	70-156-01
13W3 - 15HD	13W3 Adapter Kit with Audio	page 51	70-157-03

OPTIONAL ACCESSORIES	MODEL DESCRIPTION	PAGE	PART #
MBD 129	1U, 1/2 & 1/4 Rack Width Through-Desk Mount Kit for Two-Piece Enclosure	page 745	70-077-02

USA
714.491.1500 / 800.633.9876
714.491.1517 FAX

Europe
+31.33.453.4040 / +800.3987.6673
+31.33.453.4050 FAX

Asia
+65.6383.4400 / +800.7339.8766
+65.6383.4664 FAX

Japan
+81.3.3511.7655
+81.3.3511.7656 FAX

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